Work Ord July-27-12 9:46		17			Page 1							
Item ID: Revision ID: Item Name:	D412-702-315 Harness Assemb	ly	* *	Accept	*N900	040	100)* s	Setup Star	1,	IS1* IS2*	
Start Date: Required Date: Reference:		Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Approvals:	Process Plan: QC:	· MLJ	Date: 12/07/2	7 Tooling: SPC (Y/N):		ate:	<u> </u>	. Б	Run Star Sto	n '' \	IR1* IR2*	
Sequence ID/ Work Center I		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. r Stamp	
Draw Nbr		ion Nbr							 -			
DSI 9511	A											
100				0.00		·						5//
100 Small Fab Small Fab		Memo Assemble a	as per dwg ICA D412-702	0.00 p.49				_/X_				2/08/14
110		QC5- Inspect part comp	pleteness to step on W/O	0.00		`						
110 QC Quality Control		Memo		0.00	17/05/14/5			(th)	>			E),
				18						,		
120				0.00		/				`		
120				0.00	51							-
Packaging Packaging		Memo Identify wi CHG001 Location: PPP Rev:	ith P/N & CHG# and pack fo	0.00 or shipping as per PPP I	0412-702-315		S	1:	0/08/	15		

											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-	CO	NFORM	ANCE / UP	DATE			
											QA Closed:	Date:	
Work Ord	or.					DISPOSITION				AGAINST DE	PARTMENT,	/PROCESS	
Work Ordi	C1.					Rework	٦		Skid-tube	Crosstube	1	Water Jet	Engineering
Part i	No.					Scrap	1	1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
						Use-as-is		Therm	noforming	Finishing	Rec/Sto	re/Packaging	Other
NCR I	No.					Work Order Update			Large Fab	Composite]	Supplier	
Root					Descri	ption of work order update	T	Initial	Ac	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ct	nief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling							ł						
Operator													
Material	<u> </u>												
Setup	<u></u>												
Other	<u> </u>												
Process													
Supplier	<u> </u>							!					
Training	<u> </u>												1
Unapproved	<u> </u>	<u> </u>	İ										<u> </u>
							FAU	LT CATE	GORY			· · · · · · · · · · · · · · · · · · ·	
Landi	ing (7				General	_	٦		<u></u>	7	۲	-
	<u> </u>	Bending			_	Bend	\perp	Grain	250		Ovalized		Pressure/Forced
	\vdash	Centre N	ot Concer	ntric to (^{D/S}	BOM/Route	<u> </u>	Hardwa			Over/Under	 	Temperature/Cure
	<u> </u>	Cracks			_	Broken/Damaged	\vdash	- * *	on Incomplete		Part Incorre	 	Weld
	_	Crushed/	Crimped.		<u> </u>	Burrs	\perp	-	ions Incomplete/	Unclear	Part Lost/M	issing	Wrong Stock Pulled
	_	Cuffs				Contamination	_	Mainte			Part Moved		
	Heat Treat Countersink				<u> </u>	F				Positioned Wrong			
Inspection Strip in Tube Cut Too Short								Other					
1	Ripples in Bend Drill Holes						Offset						

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Orde July-27-12 9:46		7717		*877	717*						Page 2
Item ID: Revision ID: Item Name:	D412-702-			Accept	*N900	040	100	* Se	tup Star Stop	I VI	S1* S2*
Start Date: Required Date: Reference:	7/27/12 8/17/12	Start Qty: 1.00 Req'd Qty: 1.00	*1 *1		Cust Item I Customer:	D:			Q.		
Approvals:	Process P	Plan:	Date:	Tooling: SPC (Y/N):		ite:		Rı	ın Star Stop	!/	R1* R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*130 *130* QC		QC21- Final Inspection -	· Work Order Releas	e 0.00				М	」	2/08	2112

Quality Control

\$12-08-14

											DQA:	Da	ate:	
NCR:	Yes	/ No				WORK ORDER NON-	CO	NFOR	MANCE / UP	DATE	QA Closed:	n-	ate:	
					"						 QA Closeu.	D.	ale.	
Work Ord	er.					DISPOSITION			AGAINST D	PROCESS				
Part I	•					Rework Scrap		1	Skid-tube Machining	Crosstube Small Fab		Water Je d. Eng. Coor	\Box	Engineering Quality
NCR I	No.					Use-as-is Work Order Update		B .	noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplie	-	Other
Root					Descri	ption of work order update		Initial	Ac	tion	Sign &			
Cause		Date	Step	Qty		or Non-conformance	Cl	nief Eng	Desc	ription	Date	Verification	on	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved										- <u>-</u>				·
							AU	LT CATE	GORY		•			
Landi		Gear Bending Centre No Cracks	ot Concer	ntric to	o/s	General Bend BOM/Route Broken/Damaged		Grain Hardwa	re ion Incomplete	[-	 Ovalized Over/Under Part Incorre			Pressure/Forced Temperature/Cure Weld
		Crushed/0 Cuffs	Crimped.			Burrs Contamination		-	ions Incomplete/	/Unclear	Part Lost/Mi			Wrong Stock Pulled
		Heat Trea	t			Countersink		Mislabe	eled	<u> </u>	 Positioned V	Vrong		
		Inspection	n Strip in	Tube		Cut Too Short		Misread	i .	[Power Loss/	Surge		Other
		Ripples in	Bend			Drill Holes		Offset		_	=			

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

July-27-12 9:46:38 AM

Work Order ID:

87717

Parent Item:

D412-702-315

Parent Item Name:

Harness Assembly

Start Date: 7/27/12

Required Date: 8/17/12

Start Qty: 1.00

Required Qty: 1.00

Comments:	IPP Rev:A new issu	ue DD 10.04.30 v	erified:I	EC									
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3573-5		Manufactured	No		*****	100	Each	21.0000	1	1		11	Intul
Adapter											/)[5-]	<u> </u>
				Location		Loc Qty	L	oc Code					/ '
				GA		21				 	/ /	2/	'/
				3	1863	21							/ //
D4088-041		Manufactured	No			100	Each	3.0000	1	1	7/	1)12	118 10
Shoulder Harness									0		6	//0-	10 - 11
				Location		Loc Oty	<u>L</u>	oc Code				/	
				GA		-19					/B8	122	50) (K
					4794	3				/	Do		
				ST267		22	5 .	100 0000				/	/ /
MS24693-S272 Screw		Purchased	No			100	Each	189.0000	4	4		12	108/1
Screw								0.1	. • .			7	0.01
				Location		Loc Oty	<u>L</u>	oc Code			//	1	/
				GA 1	18352	172 172				d- //	/		
				ST288	16332	172							
					16391	11							
					16737	2						- /	1
				1	17977	4						7//	
AN960JD10LL		Purchased	No			100	Each	3,372.0000	4	4		/)	12/28
Washer									c. v. u.		4		100
				Location		Loc Qty	<u>L</u>	oc Code					/ /
				ST337A		3372				1			ι
					9085	212				7			
				1	9600	3160							

												DQA:	Da	ate:	
NCR: Y	/es	/ No				WORK ORDER NON-O	100	VFORM	ANCE / UP	DATE		•			
		•		_								QA Closed:	Da	ate:	
Work Orde	or.					DISPOSITION				AGAINST (ÞΕ	PARTMENT	PROCESS		
Part N	۱o.					Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite			Water Jet d. Eng. Coor. e/Packaging Supplier		Engineering Quality Other
Root					Descri	ption of work order update		nitial	— Ac	tion		Sign &			
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	nc	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
						FAULT CATEGORY									
Landi		Bending Centre No Cracks Crushed/0		ntric to	o/s	General Bend BOM/Route Broken/Damaged Burrs	Grain Ovalized Protection Incomplete Part Incorrect W				Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled				
		Cuffs			Contamination Maintenance						Part Moved				

Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

July-27-12 9:46:38 AM

Work Order ID:

87717

Parent Item:

D412-702-315

Parent Item Name:

Harness Assembly

MS21042L3

Nut

Purchased

No

3,842.0000

Start Date: 7/27/12

Start Qty: 1.00

Required Date: 8/17/12

Required Ofy: 1.00

<u>Location</u>	<u>n</u>	Loc Oty	Loc Code
316		906	
	122452	906	
ST300		936	
	117885	32	
	119017	725	
	119075	138	
	121444	41	
ST317		2000	
	122141	2000	

100

Each

											DQA	Date	:
NCR:	Yes	/ No				WORK ORDER NON-C	100	NFORM	ANCE / UPI	DATE			
								4	-		QA Closed	Date	:
Work Orde	or.					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part I	Part No. NCR No.					Rework Scrap Use-as-is Work Order Update	Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite			4	Water Jet od. Eng. Coor. re/Packaging Supplier	Engineering Quality Other	
Root					Descri	ption of work order update	ı	Initial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved													
							AUL	T CATE	GORY				
Landi		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspection	Crimped. t n Strip in		o/s	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		Instruct Mainte Mislabe Misreac	on Incomplete ions Incomplete/ nance led	Unclear	Ovalized Over/Unde Part Incorre Part Lost/N Part Moved Positioned Power Loss	ect lissing l Wrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Ripples in	Bend			Drill Holes		Offset					

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3
REF TCCA STC SH04-7
REF FAA STC SR01997NY
REF EASA STC EASA.I.M.R.S.00710

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WORK ORDER
12/07/27

SHOP COPY

10.03.18

This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Hamess Kit provides 3-point hamesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the hamesses. The hamesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Harness Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-351** 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/-052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

NEW ISSUE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3

NEV.		DESCRIPTION	BY	DATE
DESIGN	P	DART AEROS	PACE	LTD
DRAWN	9?	HAWKESBURY, ONT		
CHECKED	_6	DRAWING NO.		REV. A
MFG. APPR.	N/A	DSI 9511	ફ	SHEET 1 OF 6
APPROVED	10	TITLE		SCALE
DE APPR.	-#	NEW SHOULDER HARNE	ESS KITS	NTS
DATE 10.0)3.18	COPYRIGHT © 2010 BY DAR THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUP NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMM WRITTEN PERMISSION FROM DAR	PPLIED ON THE EXPRES	SS CONDITION THAT IT IS

DESCRIPTION

INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

Part Number	Description	Install similar to:
D412-702-341	Shoulder Harness Kit	D412-702-041B (IIN-D412-702, DSI 9408)
D412-702-343	Shoulder Harness Kit	D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)
D412-702-345	Shoulder Harness Kit	D412-702-045B (IIN-D412-702, DSI 9469)
D412-702-347	Shoulder Harness Kit	D412-702-047B (IIN-D412-702, DSI 9408)
D412-702-349	Shoulder Harness Kit	D412-702-049B (IIN-D412-702, DSI 9408)
D412-702-351	Shoulder Harness Kit	D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408)
D214-702-337	Shoulder Harness Kit	D214-702-037B (DSI 9454)
D205-702-353	Shoulder Harness Kit	D205-702-053B (DSI 9460)
D412-702-301	Harness Assembly	D412-702-101B (IIN-D412-702)
D412-702-303	Harness Assembly	D412-702-103B (IIN-D412-702)
D412-702-305	Harness Assembly	D412-702-105B (IIN-D412-702)
D412-702-307	Harness Assembly	D412-702-107B (IIN-D412-702)
D412-702-309	Harness Assembly	D412-702-109B (IIN-D412-702)
D412-702-311	Harness Assembly	D412-702-111B (IIN-D412-702)
D412-702-313	Harness Assembly	D412-702-113B (IIN-D412-702)
D412-702-315	Harness Assembly	D412-702-115B (IIN-D412-702)
D412-702-317	Harness Assembly	D412-702-117B (IIN-D412-702)
D412-702-319	Harness Assembly	D412-702-119B (DSI 9454)
D412-702-321	Harness Assembly	D412-702-121B (DSI 9454, DSI 9469)
D412-702-323	Harness Assembly	D412-702-123B (DSI 9454, DSI 9469)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: APPROVED .

D. SHEPHERD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3

DESIGN	P	DART AEROSPACE	LTD
DRAWN	93	HAWKESBURY, ONTARIO, CAN	
CHECKED	_ A	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 2 OF 6
APPROVED	NP.	TITLE	SCALE
DE APPR.	-#-	NEW SHOULDER HARNESS KITS	NTS
DATE 10.0	3.18	COPYRIGHT @ 2010 BY DART AEROSPAC THIS DOCUMENT IS PRIVATE AND COMFIDENTIAL AND IS SUPPLIED ON THE EXPRE NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ACC WRITTEN PERMISSION FROM DATA & REROSPACE LTD.	ESS CONDITION THAT IT IS

414

PARTS LIST

TABLE 2

X	QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
X		-343	*3#3	-347	-349	-331	.	
X	L X						D412-702-341	
X		x					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
X			х				D412-702-345	Shoulder Harness Kit
X				x			D412-702-347	Shoulder Harness Kit
D412-702-351 Shoulder Harness Kit					х		D412-702-349	Shoulder Harness Kit
9 5 4 1 1 D3761-1-041 HOOK AND LOOP STRIP (DSI 9408) 2 1 1 1 D412-702-301 HARNESS ASSEMBLY (NEW) 1 1 1 1 D4088-041 SHOULDER HARNESS (NEW) 4 4 4 4 4 MS24693S272 SCREW 4 4 4 4 MS24693S272 SCREW 4 4 4 4 MS24693S273 SCREW 4 4 4 MS24693S273 SCREW 4 4 MS24693S273 SCREW 4 MS24693S272 SCREW						×	D412-702-351	
2 1 1 1 D412-702-301 HARNESS ASSEMBLY (NEW) 1* 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* 4* ASSEMBLY (NEW) 4* 4* 4* 4* ASSEMBLY (NEW) 1* 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* 4* ASSEMBLY (NEW) 4* 4* 4* ASSEMBLY (NEW) 4* 4* 4* ASSEMBLY (NEW) 1* 1* 1* 1* D412-702-303 HARNESS ASSEMBLY (NEW) 1* 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* ASSEMBLY (NEW) 4* 4* 4* ASSEMBLY (NEW) 4* 4* 4* ASSEMBLY (NEW) 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 NUT 1 1 1 D412-702-305 HARNESS ASSEMBLY (NEW) 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* ASSEMBLY (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* ASSEMBLY (NEW) 4* 4* ASSEMBLY (NEW) 4* ASSEMBLY (N	1	1		1	1		D412-702-059	GROMMET KIT
1* 1* 1* D3573-7 ADAPTER 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* MS24693S272 SCREW 4* 4* AN960JD10LL WASHER 4* 4* AN960JD10LL WASHER 4* 4* MS21042L3 NUT 2 1 1 D412-702-303 HARNESS ASSEMBLY (NEW) 1* 1* 1* D4988-041 SHOULDER HARNESS (NEW) 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* MS24693S272 SCREW 4* 4* 4* MS21042L3 NUT 1 1 1 D412-702-305 HARNESS ASSEMBLY (NEW) 4* 4* 4* MS21042L3 NUT 1* 1 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* MS24693S273 SCREW 4* 4* 4	9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408)
1* 1* 1* D3573-7 ADAPTER 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* MS24693S272 SCREW 4* 4* AN960JD10LL WASHER 4* 4* AN960JD10LL WASHER 4* 4* MS21042L3 NUT 2 1 1 D412-702-303 HARNESS ASSEMBLY (NEW) 1* 1* 1* D4988-041 SHOULDER HARNESS (NEW) 1* 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* MS24693S272 SCREW 4* 4* 4* MS21042L3 NUT 1 1 1 D412-702-305 HARNESS ASSEMBLY (NEW) 4* 4* 4* MS21042L3 NUT 1* 1 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* 4* MS24693S273 SCREW 4* 4* 4	2	1		1			D412-702-301	HARNESS ASSEMBLY (NEW)
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4* 4* AN960JD10LL WASHER	4*							
	4*	4*			 			
	4*	4*					MS21042L3	NUT

* denotes that part is included in assembly above

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPH#RD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3 continued next page...

DESIGN	P	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	9?			
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MFG. APPR.	N/A	DSI 9511 sh	EET 3 OF 6	
APPROVED	10	TITLE	SCALE	
DE APPR.	#	NEW SHOULDER HARNESS KITS	NTS	
DATE 10.0	3.18	COPYRIGHT @ 2010 BY DART AEROSPACE LT THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS ON NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATION TO ANY OTHER WRITTEN PERMISSION FROM DATA READSPACE.	ONDITION THAT IT IS	

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QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description	
1		1			- 1-	D412-702-311	HARNESS ASSEMBLY (NEW)	
1*		1*				D3570-1	BRACKET	
1*		1*				D4088-043	SHOULDER HARNESS (NEW)	
4*		4*				MS24694S50	SCREW	
4*		4*				AN960JD10L	WASHER	
4*		4*				MS21042L3	NUT	
1		1				D412-702-313	HARNESS ASSEMBLY (NEW)	
1*		1*				D3570-2	BRACKET (NEW)	
1*	 	1*				D4088-043		
4*	 	4*				MS24694S50	SHOULDER HARNESS (NEW) SCREW	
4*		4*				AN960JD10L	WASHER	
4*		4*	-		-		NUT	
-4-		4				MS21042L3	NUI	
1			1			D412-702-315	HARNESS ASSEMBLY (NEW)	
1*			1*			D3573-5	ADAPTER	
1*			1*			D4088-041	SHOULDER HARNESS (NEW)	
4*			4*			MS24693S272	SCREW	
4*			4*			AN960JD10LL	WASHER	
4*			4*			MS21042L3	NUT	
1			1			D412-702-317	HARNESS ASSEMBLY (NEW)	
1*			1*			D3573-5	ADAPTER	
1*			1*			D4088-041	SHOULDER HARNESS (NEW)	
4*			4*			MS24693S272	SCREW	
4*			4*			AN960JD10LL	WASHER	
4*			4*			MS21042L3	NUT	
1		1			,	D412-702-321	HARNESS ASSEMBLY (NEW)	
1*		1*				D3570-3	BRACKET	
1*		1*				D4088-043	SHOULDER HARNESS (NEW)	
4*		4*				MS24694S50	BOLT BOLT	
4*		4*				AN960JD10L	WASHER	
4*		4*				MS21042L3	NUT	
1		1				D412-702-323	HARNESS ASSEMBLY (NEW)	
1*		1*				D3570-4	BRACKET	
1*		1*				D4088-043	SHOULDER HARNESS (NEW)	
4*		4*				MS24694S50	BOLT	
4*		4*				AN960JD10L	WASHER	
4*		4*				MS21042L3	NUT	

* denotes that part is included in assembly above

continued next page...

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: D. SHEPHERD (DE # 02)

DATE: 10,03,22 CERT. NO.: SH04-7 ISSUE NO.: 3

DESIGN	9	DART AEROSPACE LTD		
DRAWN	97	HAWKESBURY, ONTARIO, CANAL		
CHECKED	_B_	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9511 SF	IEET 4 OF 6	
APPROVED	140	TITLE	SCALE	
DE APPR.		NEW SHOULDER HARNESS KITS	NTS	
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE L THIS DOCIMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS OR NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER WRITTEN PERMISSION FROM DART AEROSPACE LTD.	ONDITION THAT IT IS	

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QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
2	2					D3542-1	BRACKET
7	3		4	1		D3571-1	GUIDE
2	2					D3571-3	GUIDE
2		2				D3572-041	GUIDE ASSEMBLY
12	6		6	2		D3578-041	DOUBLER
2	2					D3610-041	BRACKET
2	2					D3618-1	CAP
4	4					AN4-10A	BOLT
2		2				AN4-16A	BOLT
4		4				AN4-25A	BOLT
4		4				AN4-27A	BOLT (DSI 9469)
2	2					AN4-44A	BOLT
2	2					MS24693S274	SCREW
3	3			1		MS24694S56	SCREW
10	2		8			MS24694S58	SCREW
11	1			1		MS24694S60	SCREW
26	6	20				AN960JD416	WASHER
4	4					AN960JD416L	WASHER
12	6	6				MS21042L4	NUT
24	12		12	4		CR3212-4-4	RIVET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE:	10.03.22
CERT. NO.:	SH04-7
ISSUE NO.:	3

DART AEROSPACE LTD

DESIGN	9	■ DART AEROSPACE LTD		
DRAWN	97	HAWKESBURY, ONTARIO, CANADA		
CHECKED	A	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9511 s	HEET 5 OF 6	
APPROVED	140	TITLE	SCALE	
DE APPR.	-#	NEW SHOULDER HARNESS KITS	NTS	
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TABLE 3

QTY -337	QTY -353	Part Number	Description
х		D214-702-337	Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft
	х	D205-702-353	Dart 4-Man 3 Point Aft Facing Shoulder Harness Kit, for UH-1 Aircraft
1	2	D412-702-311	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1	2	D412-702-313	HARNESS ASSEMBLY (NEW)> SEE TABLE 2
1		D412-702-321	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1		D412-702-323	HARNESS ASSEMBLY (NEW)> SEE TABLE 2
1		D412-702-319	HARNESS ASSEMBLY (NEW)
1*		D3925-041	BRACKET
1*		D4088-043	SHOULDER HARNESS ASSEMBLY (NEW)
4*		MS24694S50	BOLT
4*		AN960JD10L	WASHER
4*		MS21042L3	NUT
	1	D3572-043	GUIDE ASSY
	1	D3572-044	GUIDE ASSY
1		D3920-041	SEATBELT GUIDE ASSEMBLY
2		D3920-5	SEATBELT GUIDE
1	6	AN4-16A	BOLT
1		AN4-21A	BOLT
7		AN4-25A	BOLT
18	12	AN960JD416	WASHER
9	6	MS21042L4	NUT

^{*} denotes that part is included in assembly above

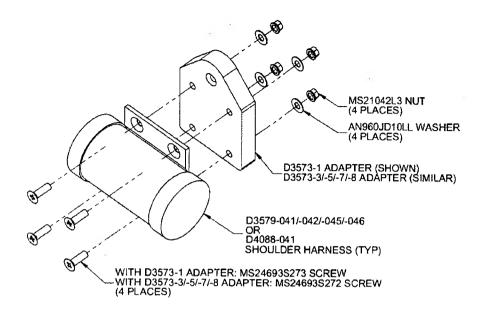
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D SHEPHERD (DE # 02)

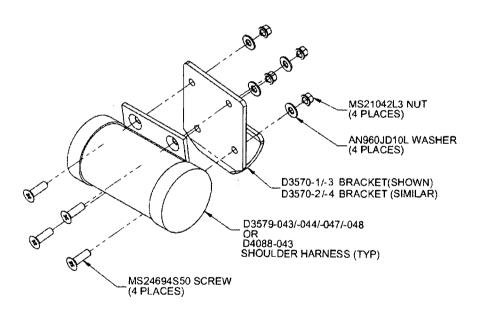
DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

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APPROVED	169	TITLE	SCALE		
DE APPR.	-#	NEW SHOULDER HARNESS KIT	rs nts		
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DETAIL 'K' D412-702-101A/-103A/-105A/-107A/-109A/-115A/-117A AND D412-702-101B/-103B/-105B/-107B/-109B/-115B/-117B OR -301/-303/-305/-307/-309/-315/-317 HARNESS ASSEMBLIES



DETAIL 'L' D412-702-111A/-111B/-113A/-113B OR -311/-313/-321/-323 HARNESS ASSEMBLIES

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Revision: